

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	280	(156/345.34).ccls. and (showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper\$3 of distribut\$3) adj (means or plate)) or (gas injector))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/11 17:40
L2	184	1 and ((first with (gas or precursor or reactant)) same (second with (gas or precursor or reactant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/11 17:41
L3	111	2 and (@ad<="20041022" or @riad<="20041022")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/11 17:42
L4	1	(156/345.44).ccls. and (showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper\$3 of distribut\$3) adj (means or plate)) or (gas injector))and (nozzle with concentric\$4 with ( hole or passage or ring ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/11 17:55
S1	1	("20070272154").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/06/21 06:36
S2	6449	(118/715).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/21 06:39
S3	6792	((118/715) or (156/345.33)).OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/21 06:40
S4	1219	S3 and (showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper\$3 of distribut\$3) adj (means or plate)) or (gas injector))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/21 06:52

S5	792	S4 and ((first with (gas or precursor or reactant)) same (second with (gas or precursor or reactant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/21 06:54
S6	600	S5 and (@ad<="20041022" or @rlad<="20041022")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/21 07:00
S7	6924	((118/715) or (156/345.33)). CCLS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/07 23:39
S8	364	S7 and ((showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper \$3 of distribut\$3) adj (means or plate)) or (gas injector)) same ring)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/07 23:39
S9	6924	((118/715) or (156/345.33)). CCLS	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/08 09:26
S10	12	S9 and (showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper \$3 of distribut\$3) adj (means or plate)) or (gas injector))and (nozzle with concentric\$4 with ( hole or passage or ring ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/08 09:27
S11	121	(showerhead or (shower head) or (gas adj (diffus\$3 or dispens \$3 or disper\$3 of distribut\$3) adj (means or plate)) or (gas injector))and (nozzle with concentric\$4 with ( hole or passage or ring ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/08 09:49
S12	109	(showerhead or (shower head) or (gas adj (diffus\$3 or dispens \$3 or disper\$3 of distribut\$3) adj (means or plate)) or (gas injector))and (nozzle same concentric\$4 same ( hole or passage or ring )) not S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/08 10:51
S13	7	("2003/0019580").URFN.	USPAT	ADJ	ON	2010/12/08 12:22

S14	24	("20030000469"   "20030019580"   "3589394"   "3610278"   "4761269"   "4780169"   "5108535"   "5174825"   "5269847"   "5286331"   "5496408"   "5589110"   "5683517"   "5728223"   "5746875"   "5853484"   "5885358"   "6286454"   "6315858"   "6446573").PN. OR ("6872259").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/12/08 12:23
S15	24	("20030000469"   "20030019580"   "3589394"   "3610278"   "4761269"   "4780169"   "5108535"   "5174825"   "5269847"   "5286331"   "5496408"   "5589110"   "5683517"   "5728223"   "5746875"   "5853484"   "5885358"   "6286454"   "6315858"   "6446573").PN. OR ("6872259").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/12/08 12:27
S16	13	(showerhead or (shower head) or (gas adj (diffus\$3 or dispens \$3 or disper\$3 of distribut\$3) adj (means or plate) or (gas injector)) and (nozzle and concentric\$4 and ( hole or passage or ring ))	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/08 12:34
S17	171	((Amikura near3 Manabu) or (Iwata near3 Teruo)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/12/08 12:50

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	9	((118/715) or (156/345.33) or (156/345.44)).OCLS.	UPAD	OR	OFF	2010/12/11 17:58
L6	0	(showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper\$3 of distribut\$3) adj (means or plate) or (gas injector))and (nozzle with concentric\$4 with ( hole or passage or ring ))	UPAD	ADJ	ON	2010/12/11 18:00

L7	0	(showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper\$3 of distribut\$3) adj (means or plate)) or (gas injector)) and (nozzle with concentric\$4 with ( hole or passage or ring ))	UPAD	ADJ	ON	2010/12/11 18:00
L8	1	(showerhead or (shower head) or (gas adj (diffus\$3 or dispens\$3 or disper\$3 of distribut\$3) adj (means or plate)) or (gas injector)) and (nozzle same concentric\$4 same ( hole or passage or ring ))	UPAD	ADJ	ON	2010/12/11 18:02
L9	11	((118/715) or (156/345.33) or (156/345.34)).CCLS.	UPAD	OR	OFF	2010/12/11 18:08
L10	2	9 not 5	UPAD	ADJ	ON	2010/12/11 18:09

12/ 11/ 2010 7:30:03 PM

C:\Documents and Settings\jlund\My Documents\EAST\Workspaces\ 10574531.wsp